

Sound reduction index according to PN-EN 20140-3:1999

Laboratory measurements of airborne sound insulation of building elements

Client: **PILKINGTON-IGP Sp. z o.o.**

ul. Portowa 24, 27-600 Sandomierz

Test specimen mounted by: **ITBUD, 02-656 Warszawa, ul. Ksawerów 21**

Description of the test facility, test specimen and test arrangement:

Insulating glass unit Pilkington Insulight™

Dimensions: 1230 mm x 1480 mm

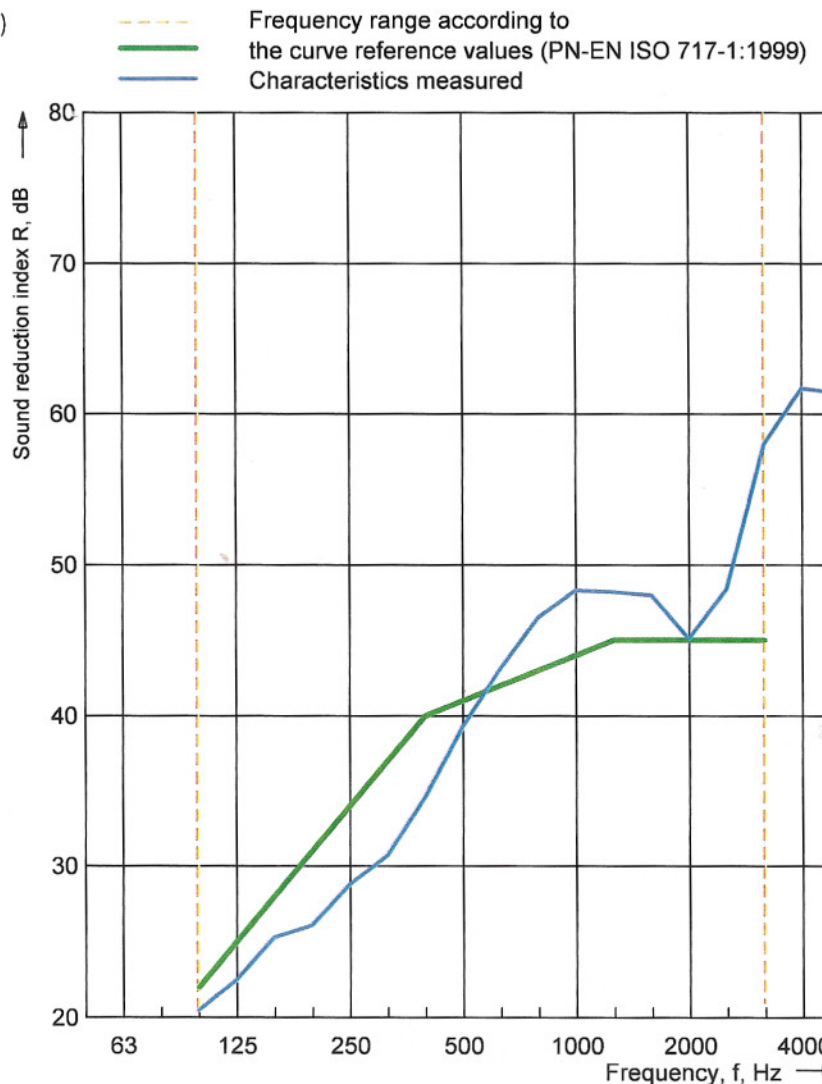
Structure: 9.5 mm (44.4) Optilam™ - 12 mm Argon 90% - 6 mm Optifloat™ - 12 mm Argon 90% - 6 mm Optifloat™

Area of test specimen: **1,88 m²**
 Air permeability coefficient: **--- m³/(m²·h·daPa^{2/3})**

Test room: source receive

Volume, m³: **100,0** **93,0**
 Air temperature, °C: **25,0** **23,4**
 Air humidity, %: **28,3** **29,7**

Frequency f [Hz]	R 1/3 octave [dB]
50	---
63	---
80	---
100	20,5
125	22,5
160	25,3
200	26,1
250	28,8
315	30,7
400	34,6
500	39,3
630	43,1
800	46,5
1000	48,3
1250	48,2
1600	48,0
2000	45,1
2500	48,4
3150	58,0
4000	61,7
5000	61,4



Rating according to PN-EN ISO 717-1:1999

R_w(C;C_{tr}) = 41 (-2; -7) dB

C₅₀₋₃₁₅₀ = --- dB C₅₀₋₅₀₀₀ = --- dB C₁₀₀₋₅₀₀₀ = -1 dB

C_{tr,50-3150} = --- dB C_{tr,50-5000} = --- dB C_{tr,100-5000} = -7 dB

Evaluation based on laboratory measurement results obtained by engineering method

Building Research Institute Group of the Testing Laboratories
 Acoustic Laboratory

Test No.: **121.12**

Date of analysis: **2012-02-13**

Signature: **N.Bombala**